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DPD-7280-59

Centract Ne. A-101 Amendment Ne. 21

Thompson Ramo Wooldridge Inc. Los Angeles 45, California 8 NOV 1959

25X1

Gentlemen:

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- 1. This document constitutes Amendment No. 21 to Contract No. A-101, as amended, dated 31 March 1955 between Thompson Ramo Wooldridge Inc., Los Angeles, California, and the United States of America.
- 2. The following pages of the Schedule (Revised December 1958) have been revised to reflect the correct Spares Listing Revisions and the correct number of Patch Catles (on pages 17 and 18) for Requirement No. 3 as set forth in letter to dated September 3, 1959 which contained an enclosure entitled "Contract A-101 Spares Analysis, Requirement No. 3": Pages 17, 18, 23, 25, 26 and 28.

3. Enclosed are new pages 17, 18, 23, 25, 26 and 28, revised 10-29-59. It is requested these new pages be substituted for the pages listed in paragraph 2 above and the superseded pages destroyed.

- 4. All other terms, conditions and requirements of Contract A-101, as amended, including the consideration, remain unchanged.
- 5. Please indicate your receipt of this Amendment No. 21 to Contract A-101 and your acceptance thereof by executing the original and two copies hereof. Return the fully executed original and one copy to the undersigned and retain the remaining copy for your files.

Very truly yours,	
	25X1
Contracting Officer	

ACKNOWLEDGED AND ACCEPTED THOMPSON RAMO WOOLDRIDGE INC.

TITLE Dir. Contracts Deft.

DATE 8 Dec 185-9

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Production Phase - Equipment Requirement No. 3:

- a. Four (4) playback and time-mark counter equipments (A Rack).
- Four (4) duplicating equipments (Bl Rack).
- Four (4) duplicating equipments (B2 Rack).
- d. Twenty (20) analysis playback equipments (C Rack).
- e. Twelve (12) frequency indicator equipments (E Rack).
- f. Twenty-Two (22) event-marker equipments (F Rack).
- Technical manuals for each equipment item comprising the system, and for the system as a whole, in the following quantities:
 - A Rack 15 & 1 Reproducible
 B Rack 15 & 1 Reproducible
 C Rack 30 & 1 Reproducible
 SYSTEM 15 & 1 Reproducible
- h. Three (3) reproduced sets and one (1) reproducible set of drawings.
- i. Spares requirement exists (see H.5.c. (1).
- j. Nine (9) modification kits for analysis playback equipment to provide speed variability.
- k. Eleven (11) modification kits for event-marker equipment to provide compatibility with fourteen-channel data reduction equipment and two (2) moving stylii.
- Fifty (50) patch cables.
- Additional production costs.
- n. Modification of F Racks.

Reference Contractor's CMCC #'s		Proposal Cost	Contract Amount	
Ltr.	S. W.	C. E.		
a. 151X5.262 4 Playbac	1131X5.44 ek, etc. @ \$1		\$ 52,839	v
b. 151X5.262 4 Re-reco	1131X5.44 ord etc., @ \$		35 ,749	
c. 151X5.262 4 Re-reco	1131X5.44 ord etc., @ \$		46 ,599	
		1132X5.176 76	246,693	
e. 151X5.262 13 Freque	1131X5.44 ency Ind. @ \$		119,690	
		1132X5.176 0,580.30	284,582	
g. 151X5.262 151X5.808 Manuals		1132X5.43	5,452	
h. 151X5.262 4 Sets of	1131X5.44 Drawings	1132X5.43	3,295	
1. Sparae - S	60 H 5 0 (1	١		

i. Spares - See H.5.c. (1)



Reference Cor	tractor's CM	CC #'s	Proposel Cost	Contract Amount
Ltr.	S. W.	C. E.		
j. 151X5.380 9 Mod Kit	1131X5.81 as - C Rack @		\$ 2,827	
k. 151X5.380 11 Event		1132X5.65 1 @ \$1,361.74	14,979	
1. 151X5.382 50 Patch	1131X5.84 Cables @ \$240		10,866	
m。151X5.754 Additiona	1131X5.114 1 Production		196,453	,
n. 151X5.761	1131X5.119	1132X5.160	5,726	
Charge to	due to Cance pack, inspec material	TOTAL	(56,000) \$ 969,750 1,016 \$ 970,766	
ESTIMATED COS	ጥር •			

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ESTIMATED COSTS:

E.1.

E.2.

E.3. E.4.

TOTAL THREE-CHANNEL DRE FOR ELECTRONIC

SYSTEMS 1 AND 3:

F. GROUND DUPING AND ANALYSIS EQUIPMENT - ELECTRONIC SYSTEM NO. 4

1. Pre-production Phase:

- Research and Development: Fourteen-Channel Data Reduction System: Design, engineering, construction and laboratory and operational test of a fourteen-channel data reduction system suitable for use with Electronic System No. 4.
- b. Prototype Production: Production of one (1) deliverable prototype unit of (i) the fourteen-channel playback equipment rack, (ii) the fourteen-channel duplicating equipment rack, (iii) the power supply equipment rack, and (iv) the timing control equipment rack (G, H, J and K Racks).
- Prototype and Engineering Production: Production of two (2) deliverable engineering models and one (1) deliverable prototype each of (i) auxiliary data display equipment and (ii) AGC-data selector equipment all for the fourteen-channel system (M & N Racks).
- d. Development of speed conversion kit and time signal generator for the K Rack.

Re	ference Cont	ractor's CMC	C #'s	Proposal Cost	Contract Amount
	Ltr.	S. W.	C. E.		
a-b.	151X5.89 151X5.380 151X5.754	1131X5.4 1131X5.68 1131X5.116	1132X5.2 1132X5.60 1132X5.156	\$ 77,279 109,303	
	Additional		22,22,0	105,928	
c.	151X5.476 151X5.668	1131X5.93 1131X5.107	1132X5.93 1132X5.132	174,472 64,386	
	151X5。1003 10-29-59	1131X5.139	1132X5.203 TOTAL S	8.839 \$540,207	\$54C,20 7

CEPH !

Reference Contractor's CMCC #	Proposal Cost	Contract Amount	
Ltr. S.W. C.	E.		
Reel and Ring Gear Assemblic	es (Est)	\$ 1,563	
151X5.1004 151X5.1178 Special Purchase Requests	(Est)	20,000 10,000 \$ 30,000	
TO	ΓA L	\$196,392	\$1 96 ,392
b Command Description V			42.4

- b. Support Requirement No. 3:
 - (1) Fly-Away Kits: One (1) portable Fly-Away Kit (FAK) providing one set of parts, components and sub-assemblies necessary for the maintenance of twenty (20) operational systems at a main or advanced base for a 30-day period. Revisions D & E to Equipment List I (FAK).
 - (2) <u>Perct Spares</u>: Spare parts and assemblies for maintenance of the Fly-Away Kit for a 360-day period. Revision C to List II dated 8-30-57.
 - (3) Special List of Equipment: One (1) Set of Special List of Equipment (SLOE) for main base support of Electronic System No. 1.
 - (%) Spare parts and fabricated components for the repair and retrofit of System I in accordance with Exhibit A of proposal CMCC Doc. No. 151X5.1149.

Reference Sor	ntractor's (DMCC #¹s	Proposal Cost	Contract Amount
Ltr.	S. W.	C. E.		
151X5.293 List I Rev	Kit Pares acl's 3 and	3a) 1132X5.182	\$ 11,138 22,639 20,913 1,139 8,129	
	. requiremen List I, II,		\$ 64,008 \$ 77,506	
151X5,1149 Spare Part retrofit o	s, atc., fo	53 1132X5,219 or repair &	ŧ 40 ,7 63	
151X5,1004 151X5,1178 Special Pu	rchase Requ	nests (Est)	\$ 5,000 25,000 \$ 30,000	
		TOTAL	\$212,277	\$212,277
ESTIMATED COS	TS:			
H.1.a. H.1.b.		\$196,392 _212. 277		
TOTAL FOR SUP SYSTEM I	PORT OF	\$438,660		1.08,669

2. Flectronic System No. 2:

- a. Support Requirement No. 1:
 - (1) Fly-Away Kits and Depot Spares: Basic requirement exists and will include all remaining parts after quantity cut back.

 Quantities and composition of FAK for electronic System No. 2 not yet formalized.

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Reference Contractor's CMCC #'s			Proposal Cost	Contract Amount
Ltr.	S. W.	C. E.		
	1131X5.11 rstems 3 and	2 1132X5.146 3A	\$ 37 , 759	
151X5.719 Depot Spar		2 1132X5.147) Systems 3 & 3A	20,537	
SLOE for S	1131X5.11 ystems 3 an or addition		8.215 20.000 8.511	\$ 86,511

c. Support Requirement No. 3:

- (1) Fly-Away Kits: Three (3) portable Fly-Away Kits (FAK) each providing one set of parts, components and sub-assemblies for maintenance of 20 operational systems at a main or advanced base for a 30-day period. List III, Rev. A, dated 4-18-57 and List III, Rev. C, dated 8-30-57.
- (2) <u>Depot Spares</u>: Spare parts and assemblies for maintenance of Fly-way Kits for a 360-day period. List IV, Rev. A, dated 4-18-57.
- (3) Special List of Equipment: Basic requirement fulfilled with delivery of SLOE for electronic System No. 1 (set forth and funded in item H.1.b.(3) above). Five (5) test sets, specific to electronic System No. 3 (set forth and funded in item C.4.d) are included in this listing. Contractor's recommendations for any additional equipment specific to electronic Systems No. 3 to be submitted when known. List VI, Revisions E & F dated 8-31-59.
- (4) Spare parts and fabricated components for the repair and retrofit of System 3 in accordance with Exhibit B of proposal CMCC Doc. No. 151X5.1149.

Reference Con	tractor's CM	ICC #1s	Proposal Cost	Contract Amount
Ltr.	S. W.	C. E.		
151X5.262 1 Fly-Away 1 Depot Spa 1 SLOE (See	Kit res	1132X5.43	\$ 16,231 32,570 \$ 48,801	
	requirements ist III and		\$ 35 , 0 76	
	, etc., for	1132X5.219 repair & retro- TOTAL	\$ 59.301 \$143,178	\$ 143 , 178
ESTIMATED COS	TS:			
H.3.a. H.3.b. H.3.c.		83,863 86,511 43,178		
TOTAL SUPPORT SYSTEM NO. 3	FOR	13.552		<u>\$313,552</u>

4. Electronic Systems No. 4 and No. 5:

a. Support Requirement No. 1:

Revised 29-10-59

(1) Fly-Away Kit: One (1) portable Fly-Away Kit (FAK) providing one set of parts, components and sub-assemblies necessary for the maintenance of System 4 at a main or advanced base for a 30-day period, in accordance with Equipment List AA, Revision A, dated June 16, 1958, which supersedes list dated October 30, 1957.

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- SECKL
- (2) <u>Depot Spares</u>: One set of Depot Spares necessary for the maintenance of System 4 for a period of 180-days in accordance with Equipment List BB dated June 16, 1958, Revision B, which supersedes List dated May 9, 1958.
- (3) Special List of Equipment: Two (2) Special Lists of Equipment (SLOE) in accordance with List CC dated June 16, 1958, Revision B, which supersedes list dated November 8, 1957.
- (4) Fly-Away Kit: FAK for System No. 5 in accordance with Equipment List DD Effective October 14, 1957 which supersedes list dated June 17, 1957.

				Proposal	Contract
Ref	ference Cont	ractor's CMC	C #'s	Cost	Amount
	Ltr.	S. W.	C. E.		
a(1)	151X5.382	1132X5.79	1132X5.81		
	151X5.831 1 FAK @ \$2	1,899.68	1132X5.178	\$ 21,900	
	151X5.1162		1132X5.223	16,363	
	1 FAK Addi	tional Cost		10, 505	
a(2)	151X5.382	1132X5.79	1132X5.81		
	151X5.831		1132X5.178		
	151X5.1162	ares © \$14,3	1132X5.223	\$ 14,397	
	1 20pc - p	, da () b	··	. = . ,.	
a(3)		1132X5 .79			
	151X5.831	a13,144.61	1132X5.178	\$ 26,289	
	151X5.1162	s was partition	1132X5.223	# 20,20,	
	2 SLOE's A	.dd ' 1 @ \$366.	00	732	
	151X5.1053		1132X5,205		
		List of Syst		2,981	
4.5					
a(4)	151X5.614		1132X5.115 1132X5.167)		
	151X5.797 2 FAK Syste	em 5	1132X5.194)	\$ 20,864	
	•			•	
	151X5.630	C	1132X5.117	3 166	
	modified f	AK for Syste	TOTAL	\$106,692	

- b. Support Requirement No. 3:
 - (1) Two (2) Fly-away Kits for System No. 4 in accordance with Equipment List AA-X dated 8-10-59, Revision C, which supersedes lists dated July 1, 1958, Rev. A., March 24, 1958 and October 30, 1957.
 - (2) One (1) Depot Spares List for System No. 4 in accordance with Equipment List BB-X dated 8-10-59, Revision C, which supersedes lists dated March 24, 1958, Revision A and October 30, 1957.
 - (3) Two (2) SLOE's for System 4 in accordance with Equipment List CC-X dated 4-7-59, Revision B, which supersedes lists dated March 24, 1958, Rev. A, and October 30, 1957.

Reference Contractor's CMCC #'s			Proposal Cost	Contract Amount
Ltr.	S. W.	C. E.		•
(1) 151X5.382 151X5.831 1151X5.117 2 FAKs @	\$21,89.68 1	1132X5.81 1132X5.178 1132X5.225 ess \$840.17	A 42 330	
per lis 2 FAKs Ad	st of deleted ld'1 Items @	items 115,023	\$ 42,119 30.046 \$ 72,165	

- b. Support Requirement No. 2:
 - (1) Fly-Away Kits: Portable Fly-Away Kits (FAK) each providing one set of parts, components, and sub-assemblies necessary for the maintenance of each rack of data reduction equipment in accordance with the following:

Rack	Quantity	List	Date
A Rack	3	Y_A Rev B	7 Oct 1957
Bl & B2 Racks	2	Y_B Rev B	7 Oct 1957
E Rack	2	Y_E Rev A	11 Apr 1958

(2) <u>Depot Spares</u>: In accordance with List XX dated 16 April 1958 and our letter DPS-5517 dated 12 November 1958 and attached list of additional spares.

Reference Contractor's CMCC #'s			Proposal Cost	Contract Amount
Ltr.	S. W.	C. F.		
151X5.382 1131X5.83 1132X5.80 151X5.837 1132X5.179 151X5.1106 1132X5.210 3 Sets Spares for A Rack @ \$2,130 2 Sets Spares for B Rack @ \$625.00 2 Sets Spares for E Rack @ \$226.76			\$ 6,390 1,250 454	
	tems that ca	nnot be used	317	
151X5.1107 Depot Spa Add'1 Spa	, ires @ \$12,52 ires Est. \$2,	11.32X5.211 9.05 110.33 Balance Available TOTAL	12,529 2,110 \$ 23,050 6,330 \$ 29,380	\$ 29,380

- c. Support Requirement No. 3:
 - (1) Fly-Away Kits: Portable Fly-Away Kits (FAK) each providing one set of parts, components, and sub-assemblies necessary for the maintenance of each rack of data reduction equipment in the following quantities:

Rack	Quantity	<u>List</u>	Date
A Rack	4	Y-A Rev B	7 Oct 57
Bl & B2 Racks	4	Y-B Rev B	7 Oct 57
C Rack	20	Y-C Rev B	7 Oct 57
E Rack	12	Y -E-X	10 Apr 1958
F Rack	22	Y-F Rev C	5-12-59

(2) <u>Depot Spares</u>: Two (2) epot Spares lists in accordance with List Y-X, Rev. A, dated 5-14-59, which supersedes List Y-X dated 15 July, 1958 and List Y, Rev. B dated 7 Oct. 1957.

Reference Contractor's CMCC #'s			Proposal Cost	Contract Amount
Ltr.	S. W.	C. E.		
4 Sets Spa 20 Sets Spa 12 Sets Spa	res for E Ra res for C Ra res for E Ra	1132X5.80 1132X5.179 1132X5.210 ck @ \$2,129.39 ck @ \$624.58 ck @ \$1,205.65 ck @ \$338.16 ck @ \$1,132.75	\$ 8,518 2,498 36,113 4,058, 25,053	